

ABSTRACT OF THE DISCLOSURE

1 The present invention provides a graphical user interface and software architecture
2 that empowers the user to create new vectors, axes, points, coordinate systems, and other
3 elements, and combinations thereof. The explicit means of creating coordinate systems
4 and primitives are carried out via user input, imported data from files, or any other means
5 of supplying numerical data to computer programs. In addition to geometrical
6 relationships, coordinate system definitions can describe rates of change in the primitives,
7 thus providing additional ways to create vectors.